PARAMETER TITLE: D-Value for Encapsulated Bioburden (D_{B125})

VALUE				
UPPER	5.0 hr.			
ACCEPTABLE	5.0 hr.			
LOWER	5.0 hr.			

APPLICATION				
MISSION	All			
CATEGORY	IV			
PLANET	All			

PARAMETER DEFINITION:	Time required to destroy 90% of the microbial spore population

encapsulated in non-metallic spacecraft material subjected to

sterilizing dry heat at a temperature of 125°C.

APPLICABLE SOURCE: All spore populations buried within non-metallic spacecraft

materials.

CONSTRAINTS: Specified D-value can be applied where sterilization cycle conditions stated in NPG 8020.12B have been met. Thermal response of materials must be

in NPG 8020.12B have been met. Thermal response of materials must be considered in design of sterilization cycles. Project must specify method for the measurement of these parameters and make allowances for

stabilization times.

REFERENCES:	1.	Recommendations of PQAP Subcommi Deliberations on July 25-26, 1968.	ttee 1A Resulting from
Planetary Protect	ion O	icer	Date